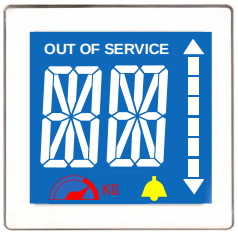
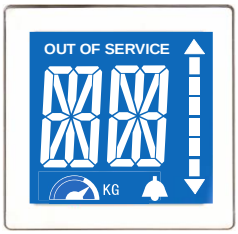
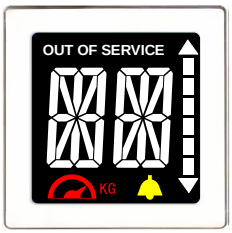
ITALIAN STYLE FOR LIFTS

DISPLAY ICARO LCD69X

ENGLISH

Firmware: v2.1
V4

DISPLAY CODES

BLUE BACKGROUND COLOR ICONS	BLUE BACKGROUND WHITE ICONS 90° SCREEN	BLACK BACKGROUND
		
LCD690-A	**LCD690-A-90**	**LCD699-A**

STAND-ALONE KIT

CODE	DESCRIPTION
KIT-STAND-ALONE	- N. 2 normally open magnetic sensors (NO) - N. 2 sensor mounts - Guide / bracket L. 25 cm
KIT-AUTONOMOUS-NC	- N. 2 normally closed magnetic sensors (NC) - N. 2 sensor mounts - Guide / bracket L. 25 cm
MAGNET-150	-N. 1 magnet 15 cm

FIXING KIT

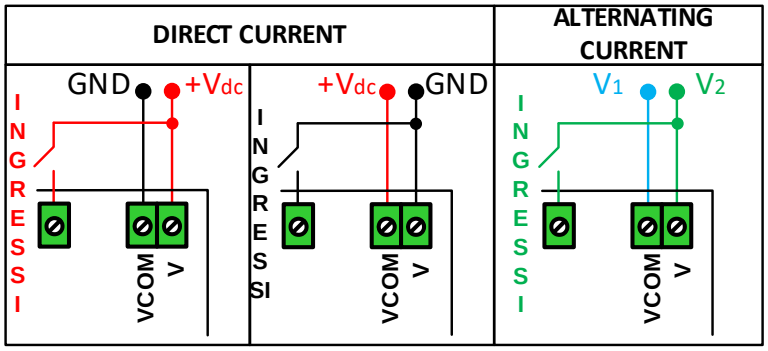
CODE	DESCRIPTION
VG005	Golden frame kit
VG009	Lowered chrome frame kit
KIT. V.ICARO.1,2	Snap fixing kit (1.2 mm thick)
KIT. V.ICARO.2	Snap fixing kit (2 mm thick)

1 TECHNICAL DATA

POWER SUPPLY	12 - 24 Vdc ± 10 % / 12-24 Vac ± 10 % *NOTE
Absorption	Max 100 mA
Minimum input activation voltage	Common positive : **< 4.5V** Common negative : **> 7.5 V**
Operating temperature range	-15°C to +50°C
Life	100% brightness → 25 000 hours
Luminous intensity	300 cd/m2

*** IN CASE OF ALTERNATING POWER SUPPLY THE DISPLAY IS NOT COMPATIBLE WITH THE FOLLOWING MODELS: LCD62X / LCD63X / LCD52X / LCD53X / TFT52X / TFT53X / TFT42X / TFT43X !**

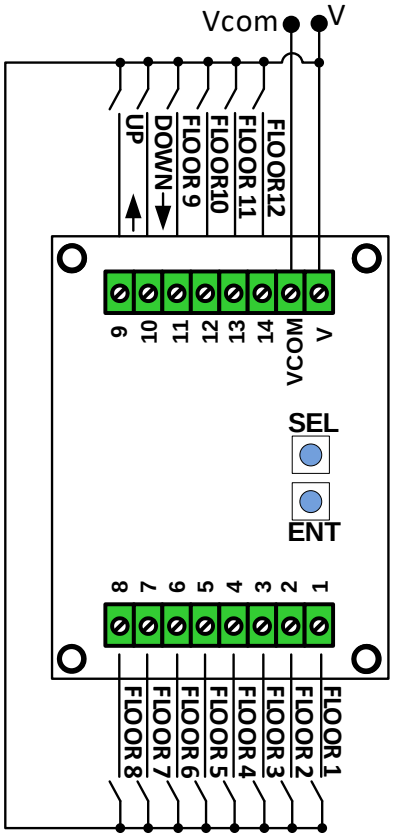
2 ACTIVATION OF INPUTS



DIRECT CURRENT
To activate the +V inputs connect the power supply V=+V, Vcom=GND.
To activate the inputs from GND connect the power supply V=GND, Vcom=+V.

ALTERNATING CURRENT
The phase that activates the inputs must be connected to V and the other phase to Vcom.

3 ONE POLE PER FLOOR

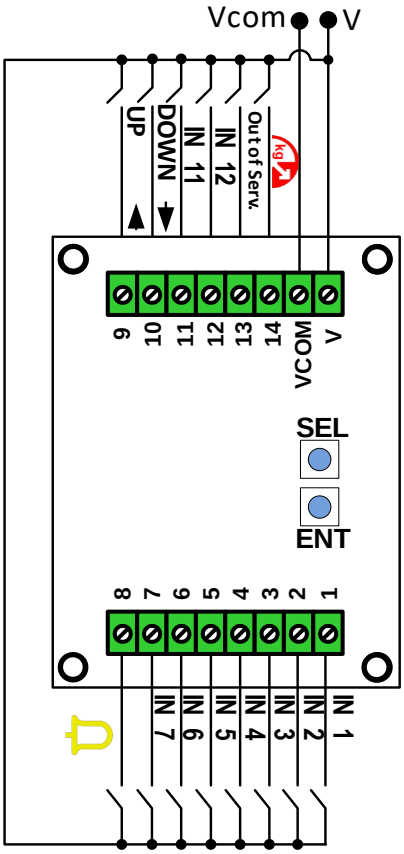


You can manage a maximum of 12 stops.
To activate the inputs from GND connect the power supply V = GND, Vcom = +V.
To activate the inputs from + V connect the power supply V = + V, Vcom = GND.
In the case of alternating current, the phase that activates the inputs must be connected to V and the other phase to VCom.

PROGRAMMING MENU (see PAR. Errore. L'origine riferimento non è stata trovata.)
To activate the **ONE POLE PER PIANO** mode, in the programming menu configure **M2 = 1P**. The value shown when activating input **1** (lowest floor) can be changed from **M4**, the values of the floors of the other inputs will be recalculated automatically.

The function of inputs 8, 12, 13, 14, normally reserved for the display of floors, can be set to activate the gong, alarm, out of service, overload, by setting the parameters **M6** and **M8**.
To change a floor symbol (for example, to change the 0 to RC) use the **M1 menu**.
For other settings see PAR. Errore. L'origine riferimento non è stata trovata..

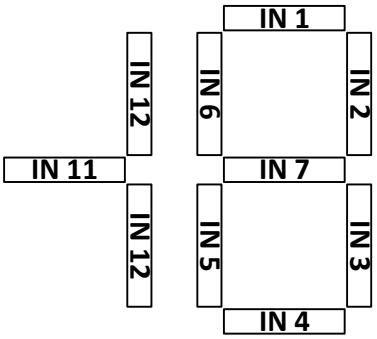
4 7 SEGMENTS



To activate the inputs from GND connect the power supply V = GND, Vcom = +V. To activate the inputs from + V connect the power supply V = + V, Vcom = GND. In case of alternating current, the phase that activates the inputs must be connected to V and the other phase to VCom.

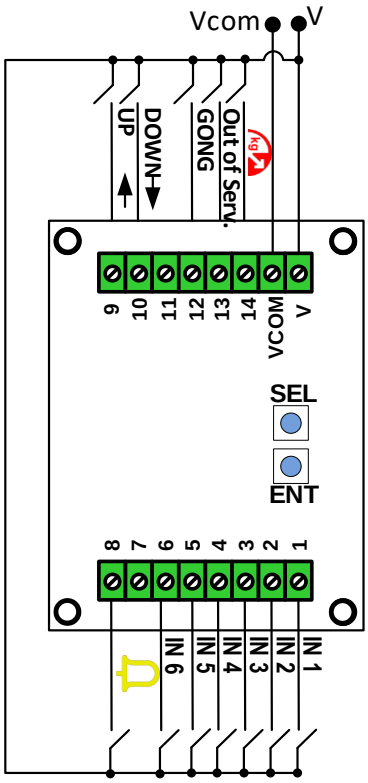
PROGRAMMING MENU (see PAR. Errore. L'origine riferimento non è stata trovata.)

To activate the **7-segment mode**, in the programming menu (see PAR. 7) configure **M2 = 7S**. In this mode, the display inputs activate the illumination of the digit segments, according to the following scheme.



The function of inputs 8, 12, 13, 14 can be set to activate the gong, alarm icon, FS out of order, overload icon. You need to configure the parameters: **M6 = 1 to display the alarm icon and M8 = 0 to activate the Gong, out of order and Overload. The message displayed when out of service is activated can be edited in the MB menu.** To change a floor symbol (for example, change the 0 to RC) use the M1 menu. For other settings see (see PAR.7).

5 BINARY, BINARY DENIED, GRAY, BCD, B-



Binary, denied track, Gray can manage up to 64 floors. BCD from -9 to 19 and Binary with minus sign from -9 to 31.
To activate the inputs from GND connect the power supply V=GND, Vcom=+V.
To activate the inputs from + V connect the power supply V = + V, Vcom = GND.
In the case of AC power supply, the phase that activates the inputs must be connected to V and the other phase to Vcom.

PROGRAMMING MENU (see PAR.Errore. L'origine riferimento non è stata trovata.)
To activate the BINARY mode **in the programming menu configure** M2 = B, for the **BINARY DENIED mode M2 = BN., for GRAY M2 = GR, for BCD M2 = BC**, **for** BINARY WITH SIGN (-) M2 = B-**.**

The value of the lowest floor can be configured in **M4**, the values of the plans of the other inputs will be automatically recalculated (not valid for B-).
The function of inputs 8, 12, 13, 14 can be set to activate the gong, alarm icon, FS out of order, overload icon. You need to configure the parameters: **M6 = 1 to display the alarm icon and M8 = 0 to activate the Gong, out of order and Overload. The message displayed when out of service is activated can be edited in the MB menu.** To change a floor symbol (for example, change the 0 to RC) use the M1 menu. For other settings see (see PAR.7).

See the following tables to see if the displayed value matches the active inputs.

ICARO LCD69X DISPLAY: PARALLEL

Binary	Inv. Binary	Display inputs					
		1	2	3	4	5	6
0	63	OFF	OFF	OFF	OFF	OFF	OFF
1	62	ON	OFF	OFF	OFF	OFF	OFF
2	61	OFF	ON	OFF	OFF	OFF	OFF
3	60	ON	ON	OFF	OFF	OFF	OFF
4	59	OFF	OFF	ON	OFF	OFF	OFF
5	58	ON	OFF	ON	OFF	OFF	OFF
6	57	OFF	ON	ON	OFF	OFF	OFF
7	56	ON	ON	ON	OFF	OFF	OFF
8	55	OFF	OFF	OFF	ON	OFF	OFF
9	54	ON	OFF	OFF	ON	OFF	OFF
10	53	OFF	ON	OFF	ON	OFF	OFF
11	52	ON	ON	OFF	ON	OFF	OFF
12	51	OFF	OFF	ON	ON	OFF	OFF
13	50	ON	OFF	ON	ON	OFF	OFF
14	49	OFF	ON	ON	ON	OFF	OFF
15	48	ON	ON	ON	ON	OFF	OFF
16	47	OFF	OFF	OFF	OFF	ON	OFF
17	46	ON	OFF	OFF	OFF	ON	OFF
18	45	OFF	ON	OFF	OFF	ON	OFF
19	44	ON	ON	OFF	OFF	ON	OFF
20	43	OFF	OFF	ON	OFF	ON	OFF
21	42	ON	OFF	ON	OFF	ON	OFF
22	41	OFF	ON	ON	OFF	ON	OFF
23	40	ON	ON	ON	OFF	ON	OFF
24	39	OFF	OFF	OFF	ON	ON	OFF
25	38	ON	OFF	OFF	ON	ON	OFF
26	37	OFF	ON	OFF	ON	ON	OFF
27	36	ON	ON	OFF	ON	ON	OFF
28	35	OFF	OFF	ON	ON	ON	OFF
29	34	ON	OFF	ON	ON	ON	OFF
30	33	OFF	ON	ON	ON	ON	OFF
31	32	ON	ON	ON	ON	ON	OFF

Binary	Inv. Binary	Display inputs					
		1	2	3	4	5	6
32	31	OFF	OFF	OFF	OFF	OFF	ON
33	30	ON	OFF	OFF	OFF	OFF	ON
34	29	OFF	ON	OFF	OFF	OFF	ON
35	28	ON	ON	OFF	OFF	OFF	ON
36	27	OFF	OFF	ON	OFF	OFF	ON
37	26	ON	OFF	ON	OFF	OFF	ON
38	25	OFF	ON	ON	OFF	OFF	ON
39	24	ON	ON	ON	OFF	OFF	ON
40	23	OFF	OFF	OFF	ON	OFF	ON
41	22	ON	OFF	OFF	ON	OFF	ON
42	21	OFF	ON	OFF	ON	OFF	ON
43	20	ON	ON	OFF	ON	OFF	ON
44	19	OFF	OFF	ON	ON	OFF	ON
45	18	ON	OFF	ON	ON	OFF	ON
46	17	OFF	ON	ON	ON	OFF	ON
47	16	ON	ON	ON	ON	OFF	ON
48	15	OFF	OFF	OFF	OFF	ON	ON
49	14	ON	OFF	OFF	OFF	ON	ON
50	13	OFF	ON	OFF	OFF	ON	ON
51	12	ON	ON	OFF	OFF	ON	ON
52	11	OFF	OFF	ON	OFF	ON	ON
53	10	ON	OFF	ON	OFF	ON	ON
54	9	OFF	ON	ON	OFF	ON	ON
55	8	ON	ON	ON	OFF	ON	ON
56	7	OFF	OFF	OFF	ON	ON	ON
57	6	ON	OFF	OFF	ON	ON	ON
58	5	OFF	ON	OFF	ON	ON	ON
59	4	ON	ON	OFF	ON	ON	ON
60	3	OFF	OFF	ON	ON	ON	ON
61	2	ON	OFF	ON	ON	ON	ON
62	1	OFF	ON	ON	ON	ON	ON
63	0	ON	ON	ON	ON	ON	ON

NOTE: With M2=B- the I6 input if active enables the "-" sign for floors -1 to -9 (the truth table of the track up to the 31st floor is respected)

The tables above refer to a value of M4 = 0 (lowest plane value = 0).
Change the value of M4 to move all values.

BCD	Display inputs				
	1	2	3	4	5
0	ON	ON	ON	ON	OFF
1	OFF	ON	ON	ON	OFF
2	ON	OFF	ON	ON	OFF
3	OFF	OFF	ON	ON	OFF
4	ON	ON	OFF	ON	OFF
5	OFF	ON	OFF	ON	OFF
6	ON	OFF	OFF	ON	OFF
7	OFF	OFF	OFF	ON	OFF
8	ON	ON	ON	OFF	OFF
9	OFF	ON	ON	OFF	OFF

BCD	Display inputs				
	1	2	3	4	5
10	ON	ON	ON	ON	ON
11	OFF	ON	ON	ON	ON
12	ON	OFF	ON	ON	ON
13	OFF	OFF	ON	ON	ON
14	ON	ON	OFF	ON	ON
15	OFF	ON	OFF	ON	ON
16	ON	OFF	OFF	ON	ON
17	OFF	OFF	OFF	ON	ON
18	ON	ON	ON	OFF	ON
19	OFF	ON	ON	OFF	ON

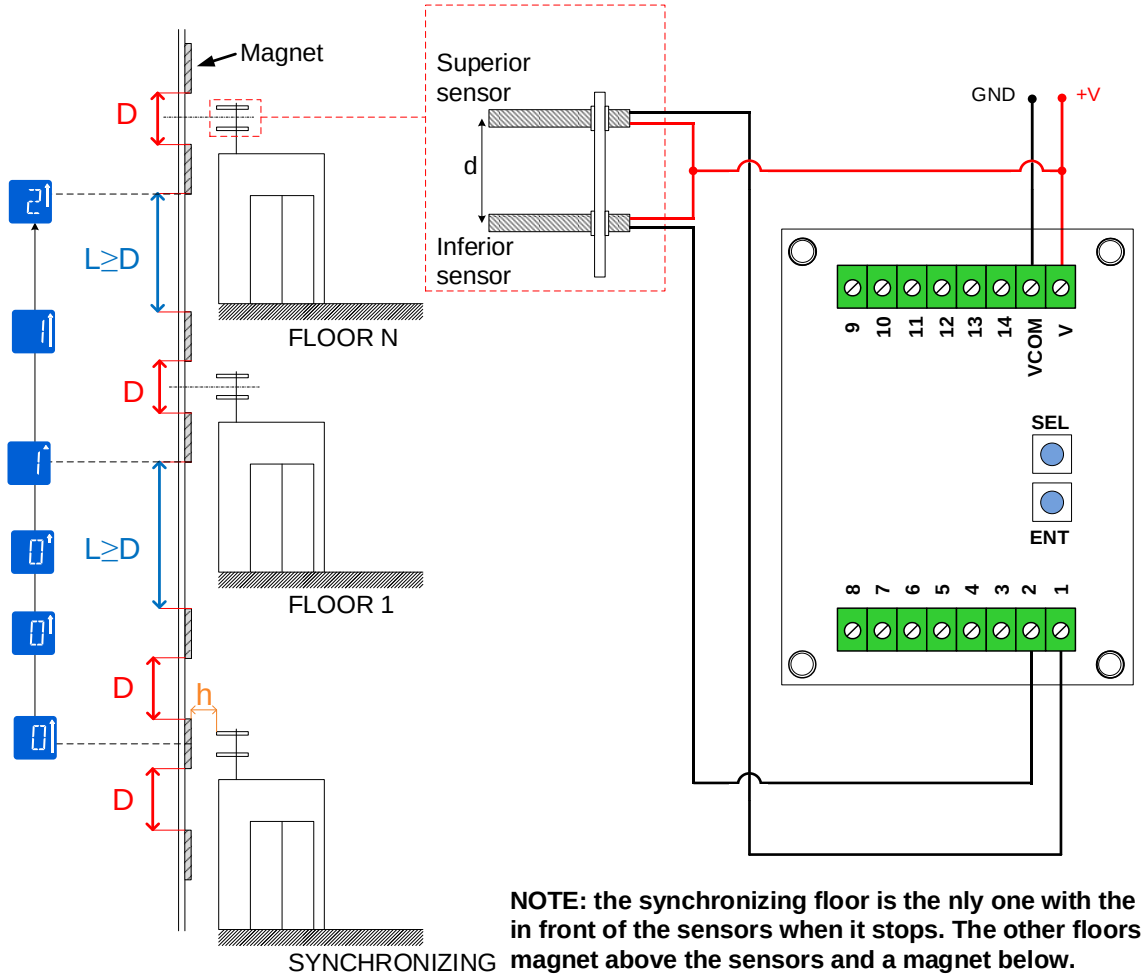
Input I5 is for ten, entrance I6 is for sign -. If I5 and I6 are both active, I6 has priority.

Gray	Display inputs						Gray	Display inputs					
	1	2	3	4	5	6		1	2	3	4	5	6
0	OFF	OFF	OFF	OFF	OFF	OFF	32	OFF	OFF	OFF	OFF	ON	ON
1	ON	OFF	OFF	OFF	OFF	OFF	33	ON	OFF	OFF	OFF	ON	ON
2	ON	ON	OFF	OFF	OFF	OFF	34	ON	ON	OFF	OFF	ON	ON
3	OFF	ON	OFF	OFF	OFF	OFF	35	OFF	ON	OFF	OFF	ON	ON
4	OFF	ON	ON	OFF	OFF	OFF	36	OFF	ON	ON	OFF	ON	ON
5	ON	ON	ON	OFF	OFF	OFF	37	ON	ON	ON	OFF	ON	ON
6	ON	OFF	ON	OFF	OFF	OFF	38	ON	OFF	ON	OFF	ON	ON
7	OFF	OFF	ON	OFF	OFF	OFF	39	OFF	OFF	ON	OFF	ON	ON
8	OFF	OFF	ON	ON	OFF	OFF	40	OFF	OFF	ON	ON	ON	ON
9	ON	OFF	ON	ON	OFF	OFF	41	ON	OFF	ON	ON	ON	ON
10	ON	ON	ON	ON	OFF	OFF	42	ON	ON	ON	ON	ON	ON
11	OFF	ON	ON	ON	OFF	OFF	43	OFF	ON	ON	ON	ON	ON
12	OFF	ON	OFF	ON	OFF	OFF	44	OFF	ON	OFF	ON	ON	ON
13	ON	ON	OFF	ON	OFF	OFF	45	ON	ON	OFF	ON	ON	ON
14	ON	OFF	OFF	ON	OFF	OFF	46	ON	OFF	OFF	ON	ON	ON
15	OFF	OFF	OFF	ON	OFF	OFF	47	OFF	OFF	OFF	ON	ON	ON
16	OFF	OFF	OFF	ON	ON	OFF	48	OFF	OFF	OFF	ON	OFF	ON
17	ON	OFF	OFF	ON	ON	OFF	49	ON	OFF	OFF	ON	OFF	ON
18	ON	ON	OFF	ON	ON	OFF	50	ON	ON	OFF	ON	OFF	ON
19	OFF	ON	OFF	ON	ON	OFF	51	OFF	ON	OFF	ON	OFF	ON
20	OFF	ON	ON	ON	ON	OFF	52	OFF	ON	ON	ON	OFF	ON
21	ON	ON	ON	ON	ON	OFF	53	ON	ON	ON	ON	OFF	ON
22	ON	OFF	ON	ON	ON	OFF	54	ON	OFF	ON	ON	OFF	ON
23	OFF	OFF	ON	ON	ON	OFF	55	OFF	OFF	ON	ON	OFF	ON
24	OFF	OFF	ON	OFF	ON	OFF	56	OFF	OFF	ON	OFF	OFF	ON
25	ON	OFF	ON	OFF	ON	OFF	57	ON	OFF	ON	OFF	OFF	ON
26	ON	ON	ON	OFF	ON	OFF	58	ON	ON	ON	OFF	OFF	ON
27	OFF	ON	ON	OFF	ON	OFF	59	OFF	ON	ON	OFF	OFF	ON
28	OFF	ON	OFF	OFF	ON	OFF	60	OFF	ON	OFF	OFF	OFF	ON
29	ON	ON	OFF	OFF	ON	OFF	61	ON	ON	OFF	OFF	OFF	ON
30	ON	OFF	OFF	OFF	ON	OFF	62	ON	OFF	OFF	OFF	OFF	ON
31	OFF	OFF	OFF	OFF	ON	OFF	63	OFF	OFF	OFF	OFF	OFF	ON

The tables above refer to a value of M4 = 0 (lowest plane value = 0).
Change the value of M4 to move all values.

6 STAND ALONE

IMPORTANT : For the stand-alone modes the power supply must be direct.
It is possible to manage a maximum of 64 plans.
PROGRAMMING MENU (see PAR.Errore. L'origine riferimento non è stata trovata.)
To activate the **STAND-ALONE** mode, in the programming menu configure **M2 = AO for NORMALLY OPEN** SENSORS and **M2 = AC** if you use **NORMALLY CLOSED SENSORS**.
The distance between the planes must be at least 40 cm.
The lift speed must be between the following values: Vmin = 0.4 m/s - VMAX = 2 m/s.

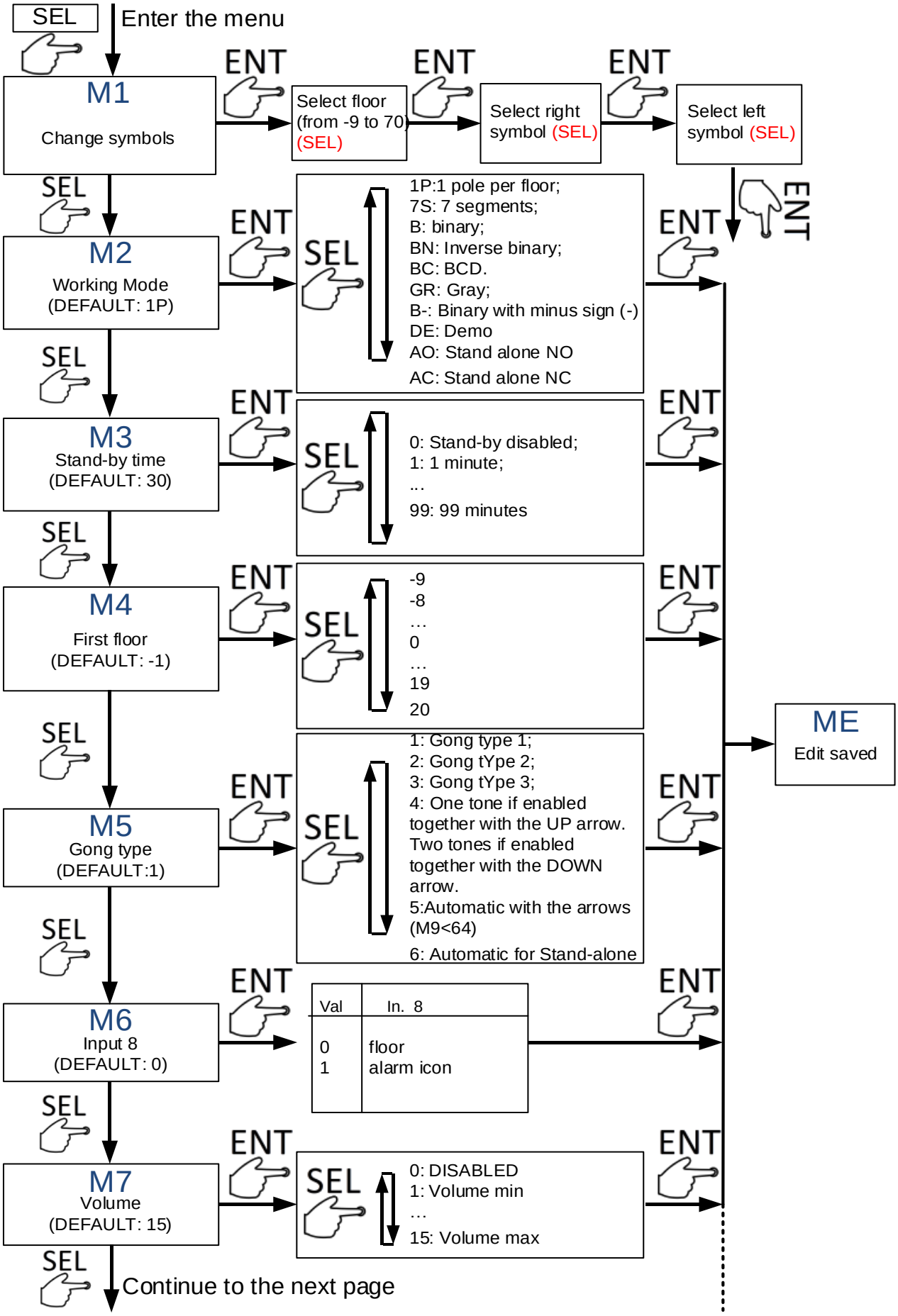


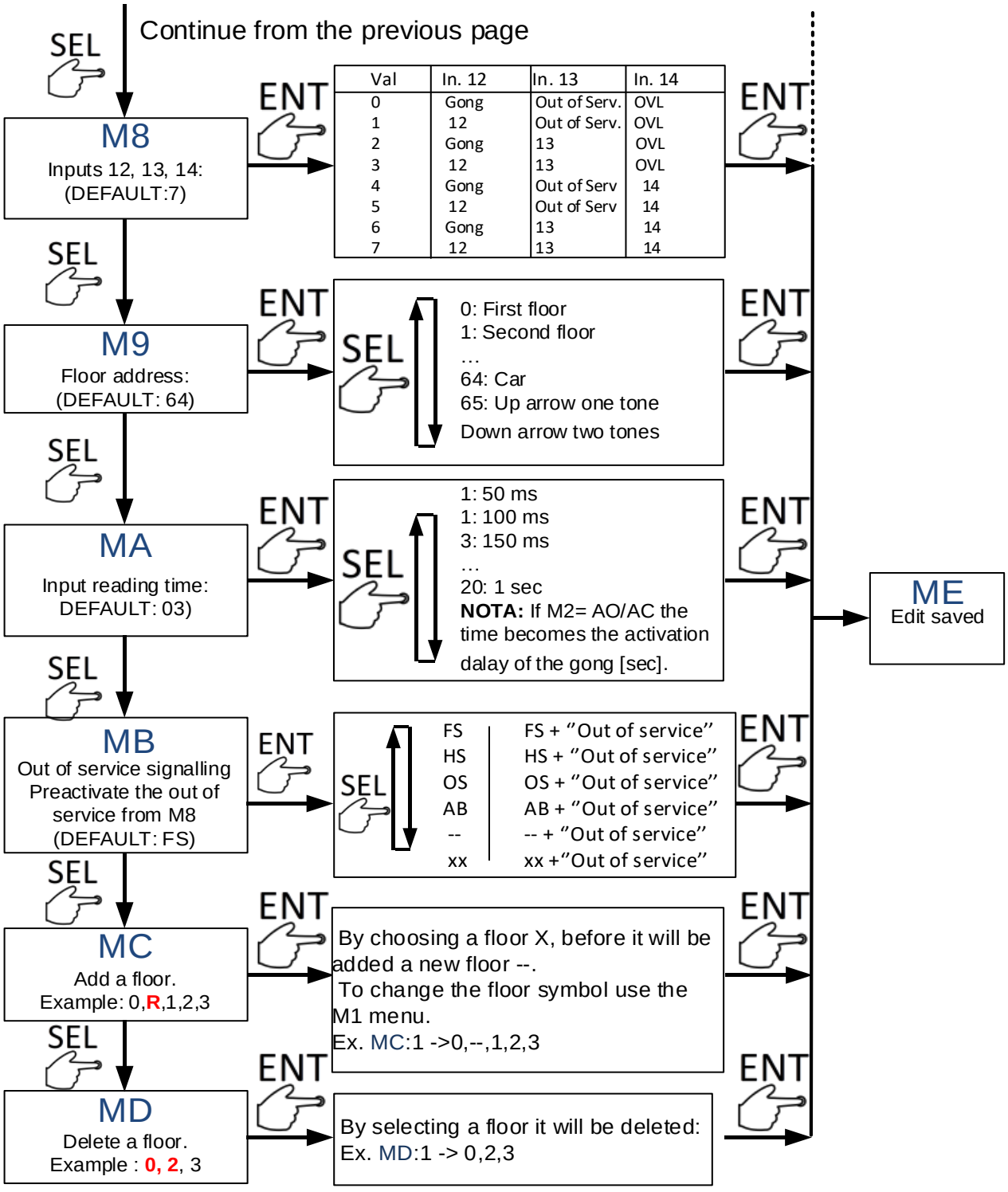
NOTE: the synchronizing floor is the nly one with the magnet in front of the sensors when it stops. The other floors have a magnet above the sensors and a magnet below.

Lift speed (m/s)	MINIMUM DISTANCE BETWEEN MAGNETS (cm)
0.5	30
0.8	45
1.0	60
1.2	70
1.4	80
1.6	90

MINIMUM MAGNET LENGTH: 12 cm
h MAXIMUM DISTANCE SENSOR - MAGNET: 2.5 cm
DISTANCE BETWEEN SENSORS d = 6 cm

7 PROGRAMMING MENU





IMPORTANT : To restore the default settings: hold down the ENT button until the ME symbol appears on the display of the device (about 5 seconds).

8 INSTALLATION INSTRUCTIONS

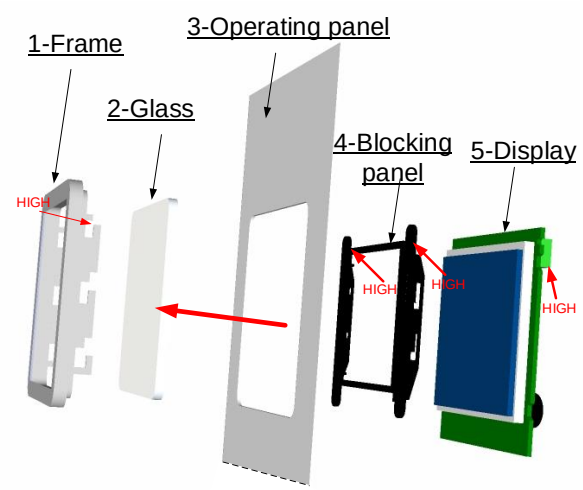
8.1 FRAME KIT

A-Insert the slide (2) inside the frame (1);

B-Attach the frame (4) to the display (5);

C-Insert the frame with the slide (1+2) into the appropriate break-in of the plate (3);

D-Insert the frame (4-5) into the appropriate slots of the frame and press down to hook it;



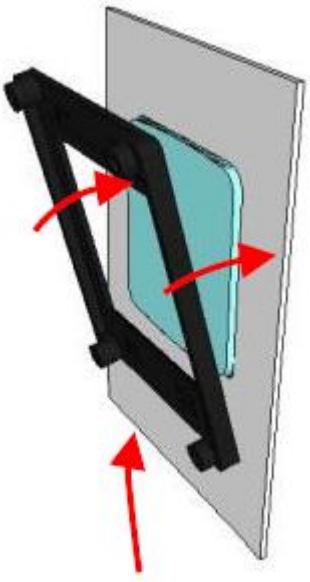
WARNING : PUT PRESSURE ON THE FRAME (4) AND NOT DIRECTLY ON THE DISPLAY (5)!

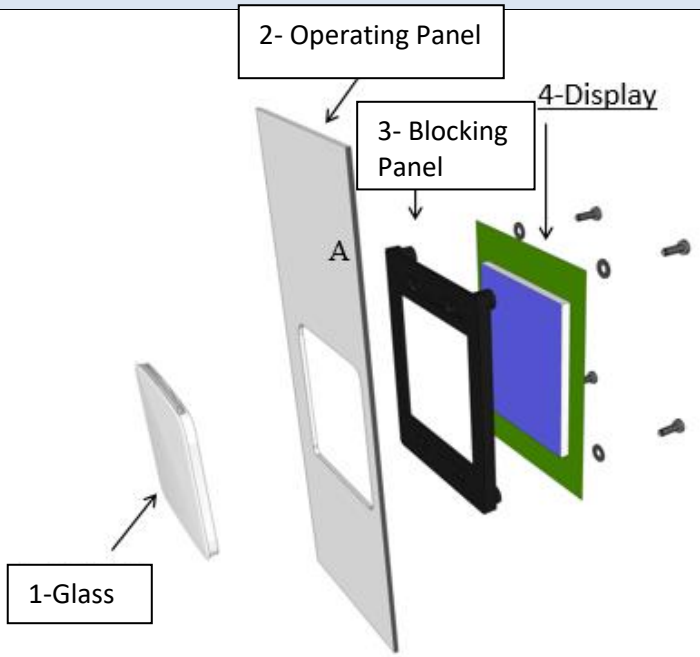
E- Insert the 4 screws into the appropriate holes in the frame (4).

8.2 SNAP FIXING KIT (Flush mounting kit)

A-Insert the slide [1] inside the plate [2];

B-Mount the frame (3) as shown in the figure:

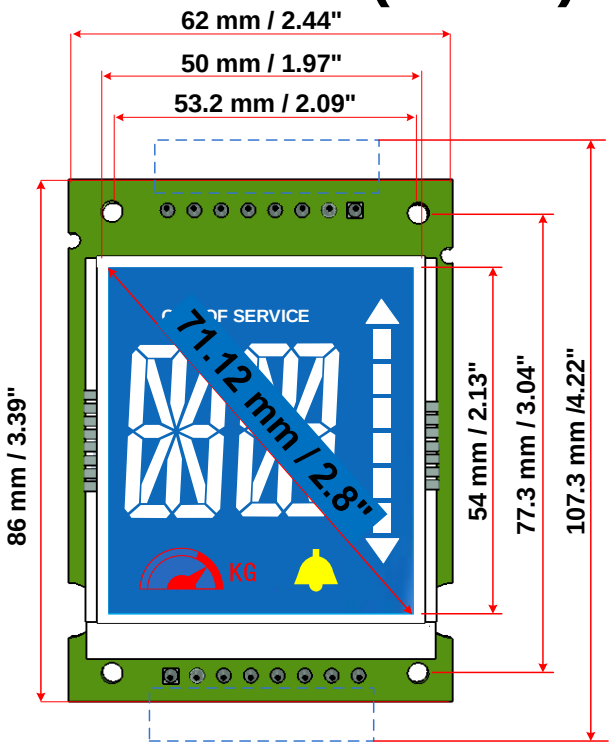




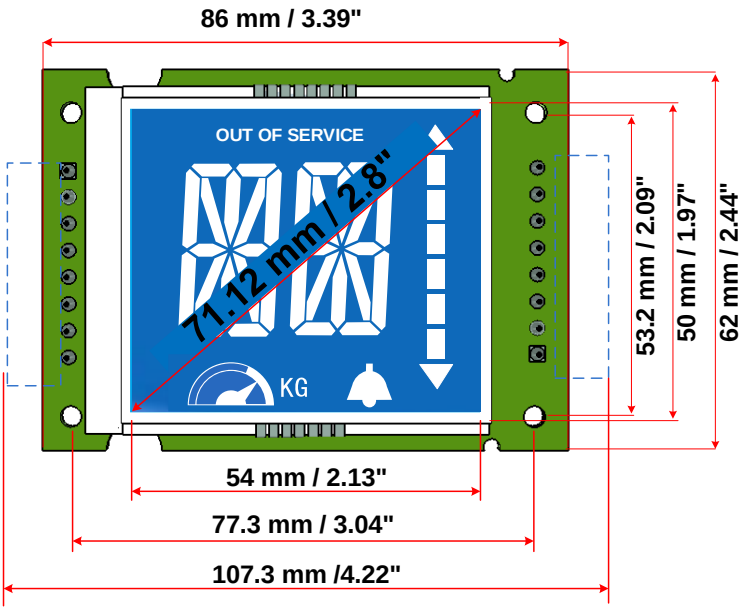
C- Insert 4 screws into the appropriate holes in the frame (3).

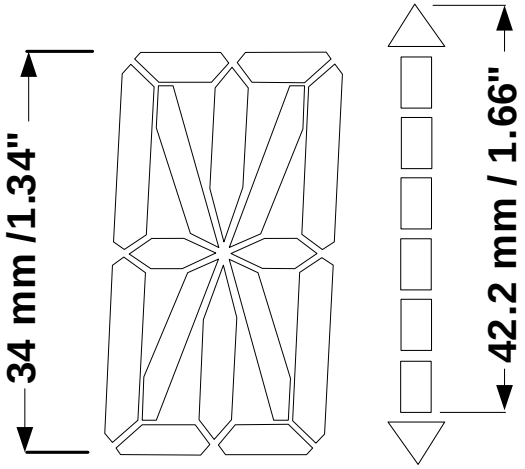
9 DIMENSIONS

LCD690-A
LCD699-A (Black)



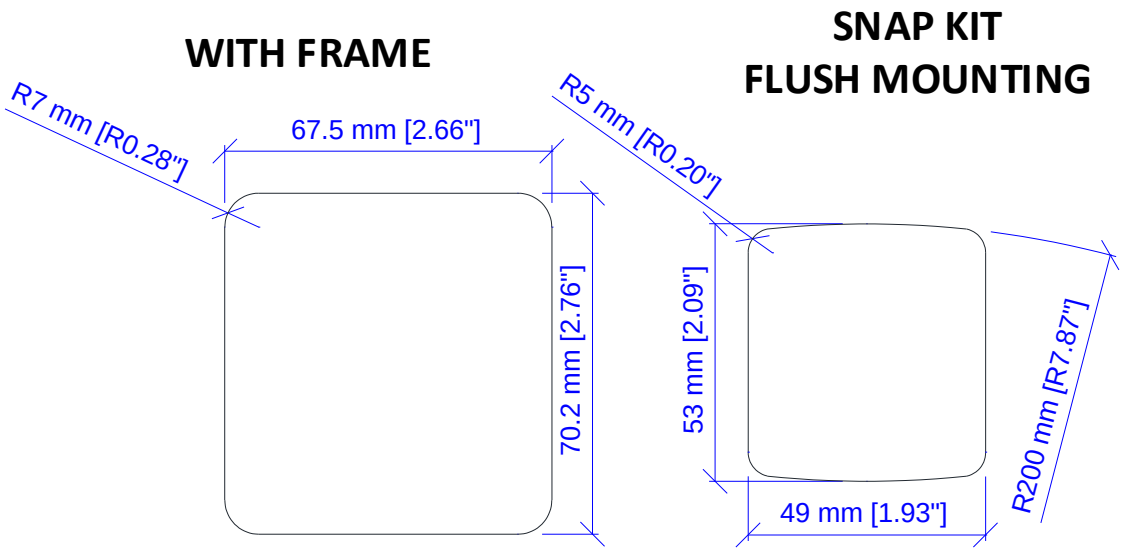
LCD690-A-90



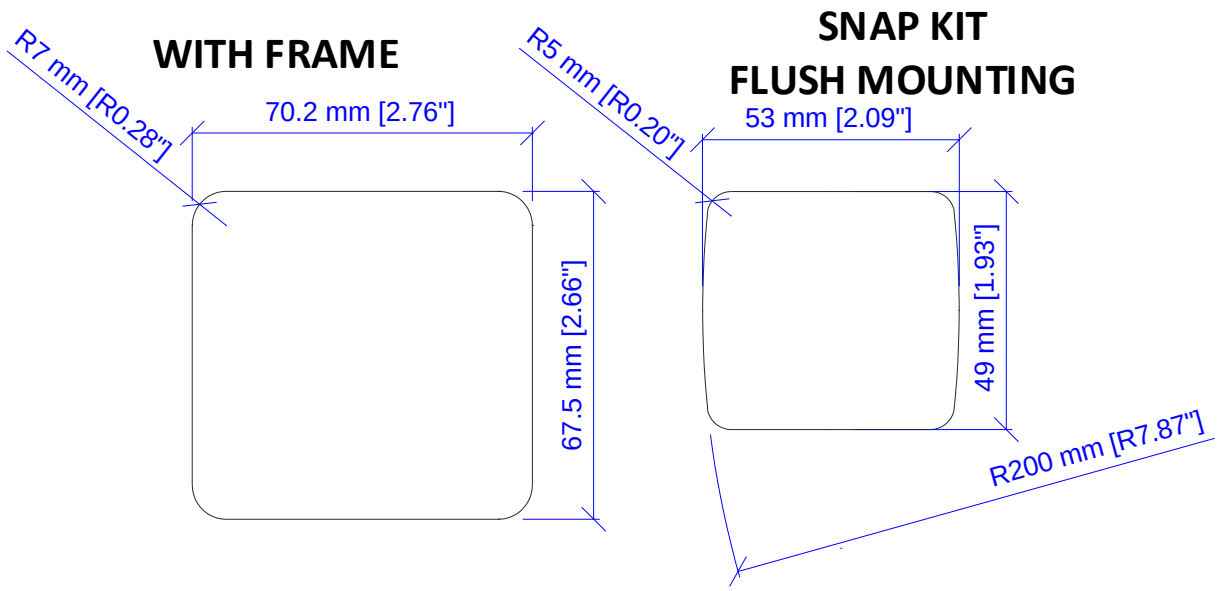


10 CUTOUTS

LCD690-A
LCD699-A



LCD690-A-90



11 PROBLEM SOLVING

PROBLEM	SOLUTION
The display does not turn on / Does not display any planes.	Power supply : 12-24Vdc or 12-24Vac. In **DIRECT CURRENT**: -To have the **inputs** activated by GND **connect the power supply** V = GND, Vcom = + V; -To have the inputs activated by + V connect the power supply V = + V, Vcom = GND In case of **ALTERNATING CURRENT,** the phase that activates the inputs must be connected to V and the other phase to Vcom. STANDALONE modes do not work alternately.
The display shows the planes in sequence but in the wrong sequence.	Set the M4 parameter in the schedule menu. By changing the value of M4, all plans will be modified accordingly.
The display shows an incorrect sequence of plans.	Check the operating mode in M2 of the programming menu. If the mode is right, check that the inputs turn on according to the chosen mode table.
When running in B, BN, BC, Gr, B- modes the display shows incorrect planes.	Increase the value of MA.
There are plans displayed with strange symbols.	Restore factory defaults: Press and hold the ENT button until the device displays the ME symbol (after about 5 seconds).
The display does not light up but shows the planes.	The display is probably in standby. Check the M3 parameter and set it to 0 to disable it. If the problem persists, you need to get help.

DIAGNOSTIC LEDs:

WORKING MODE (M2)	LED ON	FUNCTION
1P	DL1	ERROR, there are two floor inputs activated at the same time.
	DL2	One or more inputs from 1 to 14 are activated.
B / BN / BC / GR / 7S / B-	DL1	One or more floor inputs are activated.
	DL2	One or more arrow and alarm inputs are activated.
AO / AC	DL1	Activated upper sensors (closed if normally open or open if normally closed).
	DL2	Activated lower sensors (closed if normally open or normally closed).

ITALIAN STYLE FOR LIFTS

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